

1 **ABSTRACT OF THE DISCLOSURE**

2 The present invention has multiple AV/S terminals, an RF modulator, a S/A
3 V signal converter and multiple switches. The switches connect the AV/S terminals with
4 the RF outputs to allow the AV/S signal from the special AV/S terminal input into the RF
5 modulator to be converted to an RF-signal input to the ANT terminal of the TV. Besides,
6 the present invention further has an ANT input with an electronic switch and a detecting
7 unit having a driver, which decides whether the electronic switch turns on. If the
8 detecting unit detects no AV-signal or S-signal input from the AV/S terminals, the
9 detecting unit first cuts off the power to the RF modulator and then makes the electronic
10 switch turn on. The RF-signal from the ANT input is output to the RF output.